



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIAL
CERTIFICATE NUMBER USA/0292/S, REVISION 6

This certifies that the sources described have demonstrated their ability meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and United States of America² for the transport of radioactive materials.

1. Source Identification - Neutron Products Inc. Model Nos. NPI-XX-XXXX, NPI-XX-XXXXW, NPI-XX-XXXXR, NPI-XX-XXXXCR, and NPI-XX-XXXXRC. Please note that the first XX represents the nominal diameter in mm, the XXXX represents the nominal source intensity in roentgens per hour at one meter, and the letters W, R, CR, and RC represent the form of the radioactive contents.
2. Source Description - The sources authorized by this certificate are double encapsulations constructed of Type 304 or 304L stainless steel manufactured in accordance with Neutron Products Inc. drawing no. A200383 (attached). The external diameter of the encapsulation is between 23.6 mm (0.93 inches) and 38.0 mm (1.50 inches) and the external length is between 33.0 mm (1.30 inches) and 42.0 mm (1.65 inches). An internal tungsten shield may be used on the model NPI-XX-XXXXW and a stainless steel inner shield may be used on the model NPI-XX-XXXX.
3. Radioactive Contents - Model nos. NPI-XX-XXXX, NPI-XX-XXXXW may contain up to 444 TBq (12,000 Ci) of Cobalt-60 in the form of metal wafers or a solid slug. Model Nos. NPI-XX-XXXXR, NPI-XX-XXXXCR, and NPI-XX-XXXXRC may contain up to 555 TBq (15,000 Ci) of Cobalt-60 in the form of metal wafers, metal casting, or metal rods.
4. Quality Assurance - Records of Quality Assurance activities required by paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.

¹ "Regulations for the Safe Transport of Radioactive Materials, 1996 Edition (Revised)", No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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5. Expiration Date - This certificate expires on October 31, 2006. On December 31, 2001, this certificate supersedes, in its entirety, all previously issued revisions of USA/0292/S.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the July 19, 2001 petition and October 17, 2001 data submitted by Neutron Products Inc., Dickerson, MD and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire

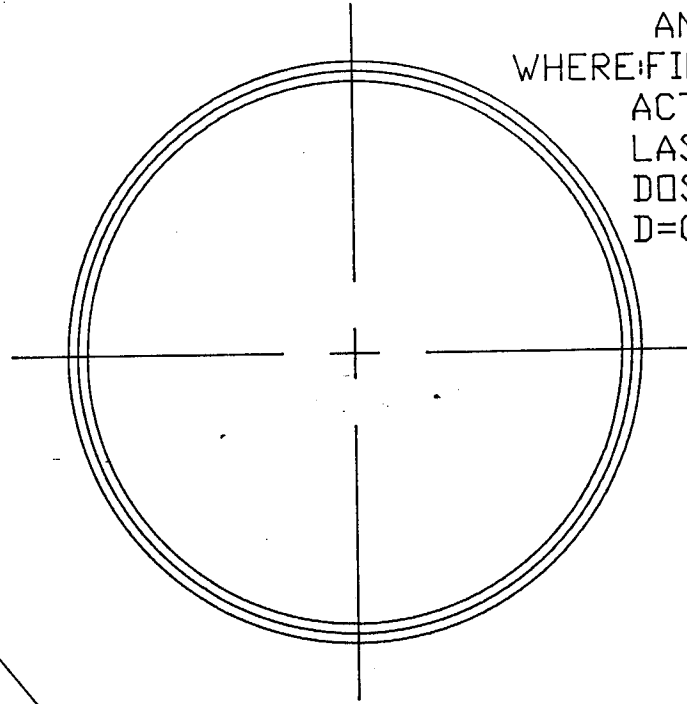
Associate Administrator for Hazardous Materials Safety

OCT 30 2001

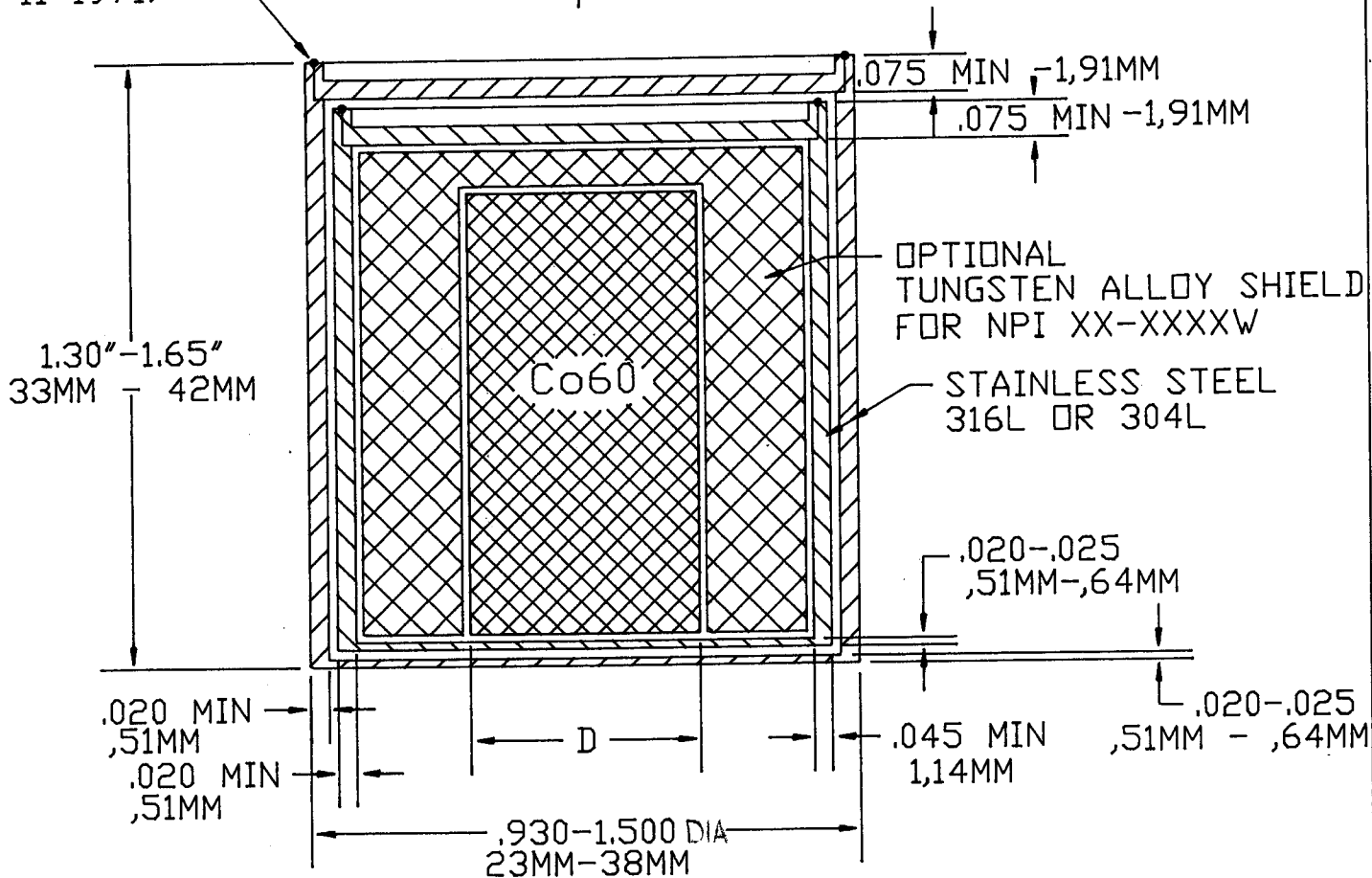
(DATE)

Revision 6- Issued to add model numbers with greater contents, to upgrade to the 1996 IAEA regulations, and to extend the expiration date.

CATALOG No NPI XX-XXXX
AND NPI XX-XXXXW
WHERE FIRST TWO DIGITS ARE
ACTIVE DIAMETER(D) IN MM
LAST DIGITS EQUAL THE
DOSE RATE IN RHM
D=05, 10, 15, 20 OR 25MM



WELD PER NPI
SPEC P-4
(JAN 11-1971)



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			NEUTRON PRODUCTS INC		
TOLERANCES ANGULAR DECIMAL FRACTIONAL			TITLE		APPROVED
DRAWN JG 1-31-97			TELE THERAPY		ISSUED DATE
DESIGN MT 1-31-97			SOURCE		SIZE A
CHECKED <i>[Signature]</i> 1/31/97					DWG. NO. 200383
					REV
			SCALE 2/1		SHEET 1 OF 1